



Real-time muscle insights to optimise sports performance



In sports, we monitor speed,  
volume, and heart rate, but often  
overlook our **most trainable asset**  
— our **muscles**.



The **only** optical  
personalised **muscle**  
feedback **solution**  
for sports performance.

**anytime** & anywhere

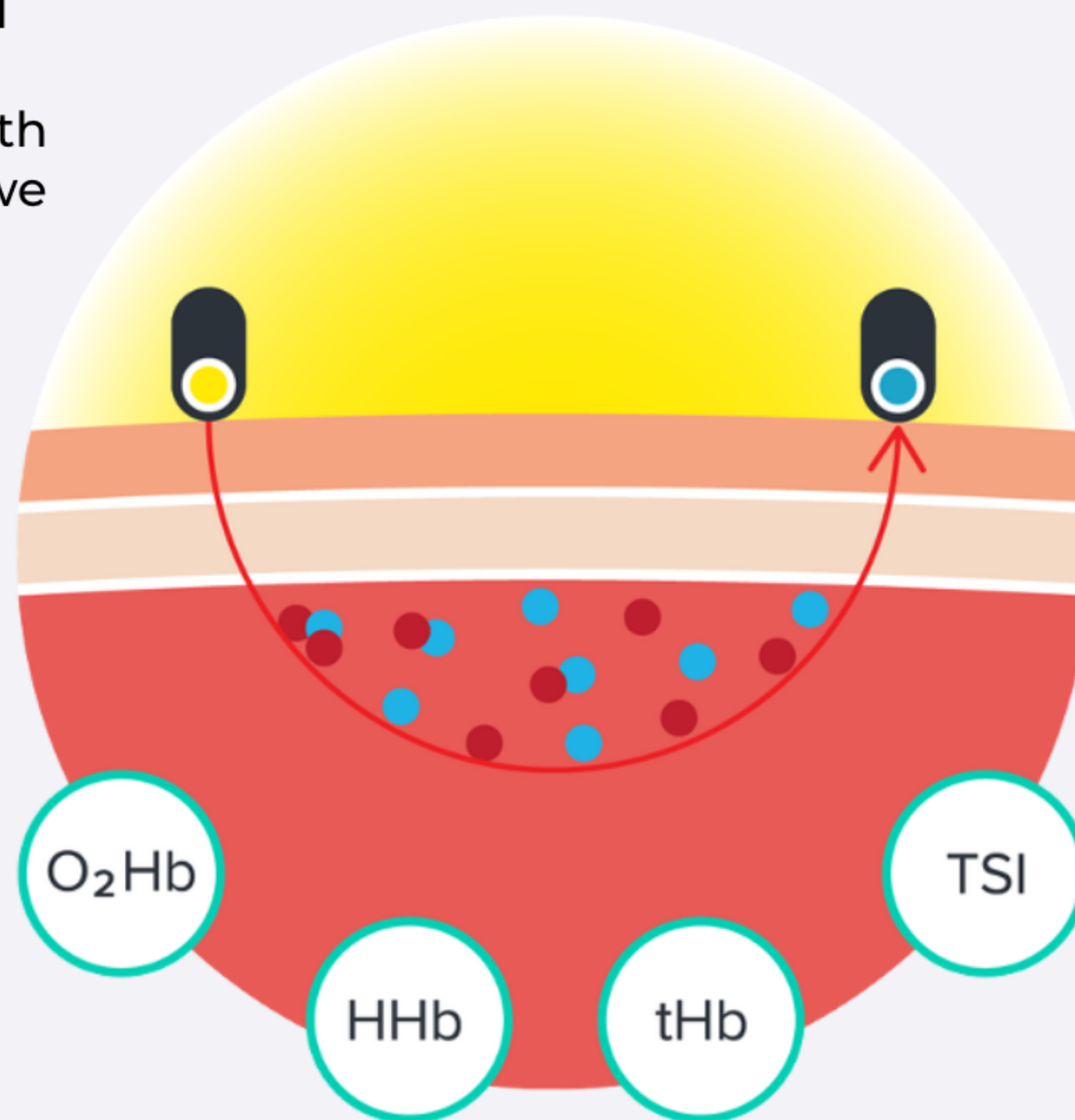


**SENSOR**

**APP**

**3RD PARTY**

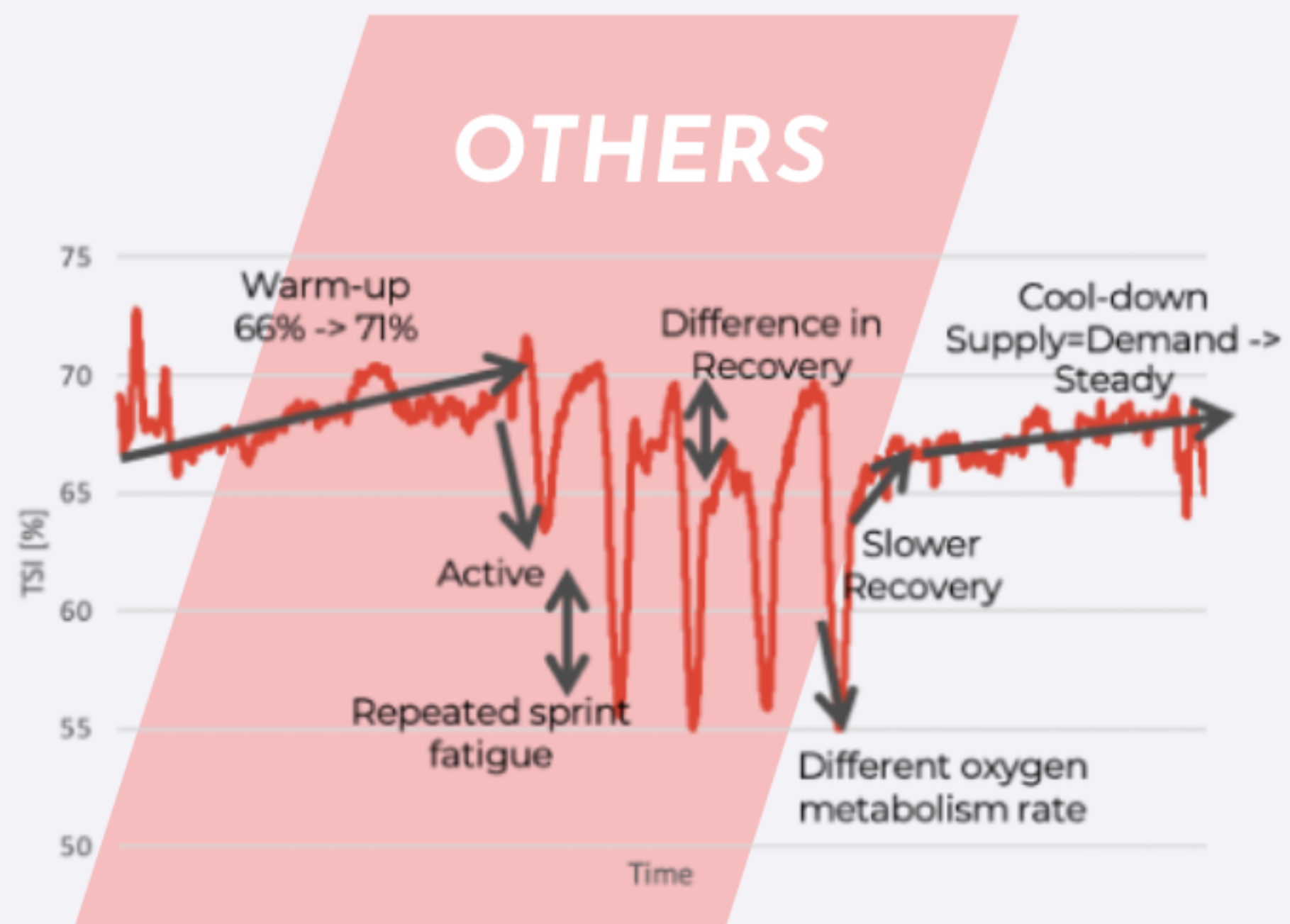
**Exercise** increases the **demand** for **oxygen** in muscles, which is delivered by red blood cells. With our **optical** technology (**NIRS**) we measure **muscle oxygen**.



**Shine** infra-red light into tissue. We **measure** the light and **analyse** it.

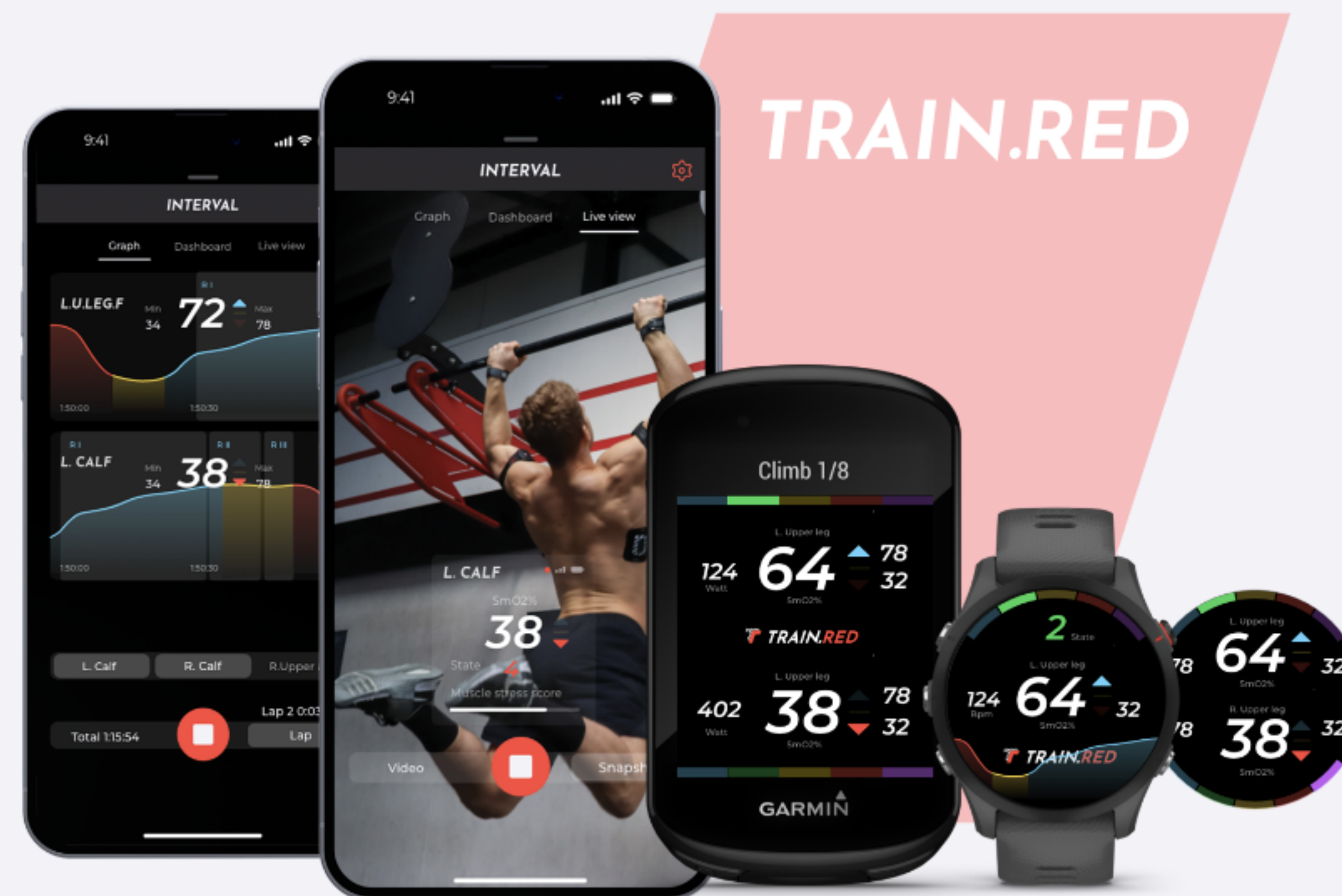


## HARDCORE DATA FOR THE SCIENTIST



VS

## REAL-TIME FEEDBACK & EASY TO USE INSIGHTS

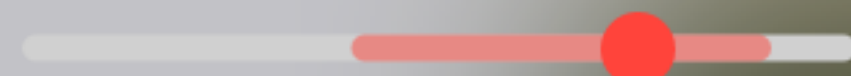




## LEARN TO PACE

Maximize your muscle efficiency

Supply Demand



Muscle state

4

## TRAINING ZONES

Target Muscles and for fast growth.



## CONTROL

Muscle stress Indicator

Muscle stress 70/100



Get ready for next set



## RECOVER SMART

Optimise rest to prevent injuries



## WHO WE ARE SERVING



**SPORTS ENTHUSIAST**

Early adopters who are looking for the next step to improve performance



**TRAINERS & COACHES**

To provide hyper personalised training plans



**SPORT LABS**

Labs which assess performance



## OUR SENSORS

Any athlete, trainer or coach

### FYER

Smallest and smartest waterproof Muscle O2 sensor. Faster and More wearable than its competition.



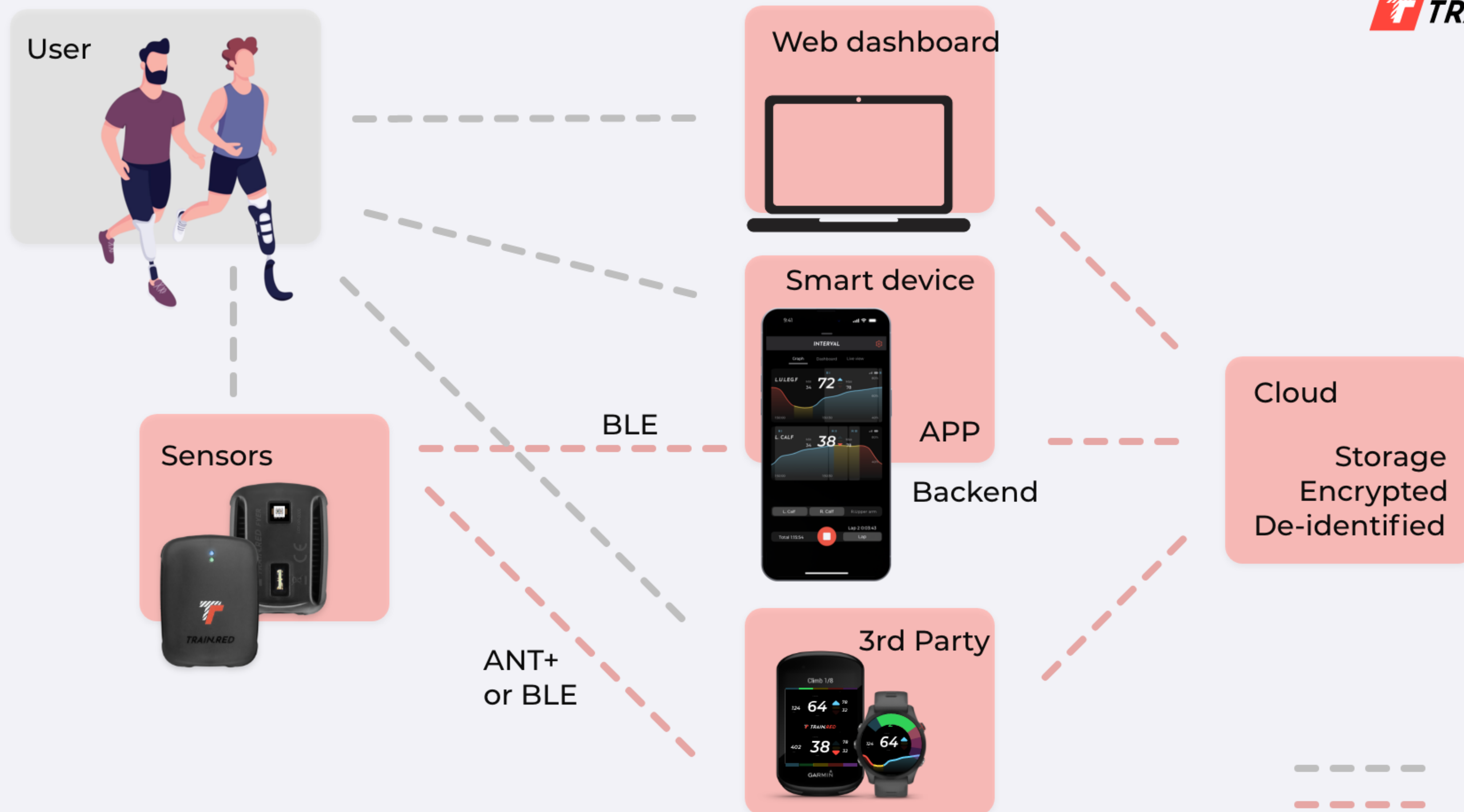
### PLUS

Fastest muscle O2 sensor in the world (100 Hz) measuring on multiple depths simultaneously. BLE, ANT+, IMU, haptic & visual feedback



The data-driven sports pro







# COMPETITION



|                 | TRAIN.RED FYER                                         | TRAIN.RED PLUS                        | PortaMon Mk II            | NNOXX                       | Moxy                                             |
|-----------------|--------------------------------------------------------|---------------------------------------|---------------------------|-----------------------------|--------------------------------------------------|
| SIZE            | 1.2 x 4.4x 5.9 (cm)                                    | 1.5 x 4.4 x 6.8 (cm)                  | 1.7 x 4.2 x 8.4 (cm)      | 3.0 x 7.5 x 1.5 (cm)        | 1.5 x 5.2 x 6.2 (cm)                             |
| WEIGHT          | 18 grams                                               | 26 grams                              | 84 grams                  | ?                           | 48 grams                                         |
| MEASURE DEPTH   | up to 20mm                                             | up to 20mm                            | up to 20mm                | ?                           | up to 15mm                                       |
| N CHANNELS      | 1 (line receiver)                                      | 6 (10-15-20-30-35-40)                 | 3 (30-35-40mm)            | 1                           | 1                                                |
| SWEATPROOF      | ✓                                                      | ✓                                     | ✗                         | ✓                           | ✓                                                |
| WATERPROOF      | ✓ (with plug)                                          | ✗                                     | ✗                         | ?                           | ✓                                                |
| BATTERY up to   | 32 hrs                                                 | 24 hrs                                | 4 hrs                     | 4 hrs                       | 4 hrs                                            |
| SPEED           | 10Hz                                                   | 100Hz                                 | 10Hz                      | ?                           | 4Hz                                              |
| CONNECTIVITY    | BLE & ANT+                                             | BLE & ANT+                            | BLUETOOTH                 | BLE                         | BLE & ANT+                                       |
| HAPTIC FEEDBACK | ✗                                                      | ✓                                     | ✗                         | ✗                           | ✗                                                |
| IMU             | ✗                                                      | ✓                                     | optional                  | ✗                           | ✗                                                |
| USB C           | ✓                                                      | ✓                                     | ✗                         | ✓                           | ✗                                                |
| PRICE           | 600 € (includes all)                                   | 1500 € (includes all)                 | 8000 € (includes all)     | 500 \$ (one year)           | 800 \$ (excl. software)                          |
| PERFECT FIT FOR | Sports enthusiasts<br>Athletes<br>Coaches<br>Education | Coaches<br>Exercise labs<br>Education | Exercise labs<br>Research | Athletes<br>Coaches<br>Team | Athletes<br>Coaches<br>Exercise labs<br>Research |



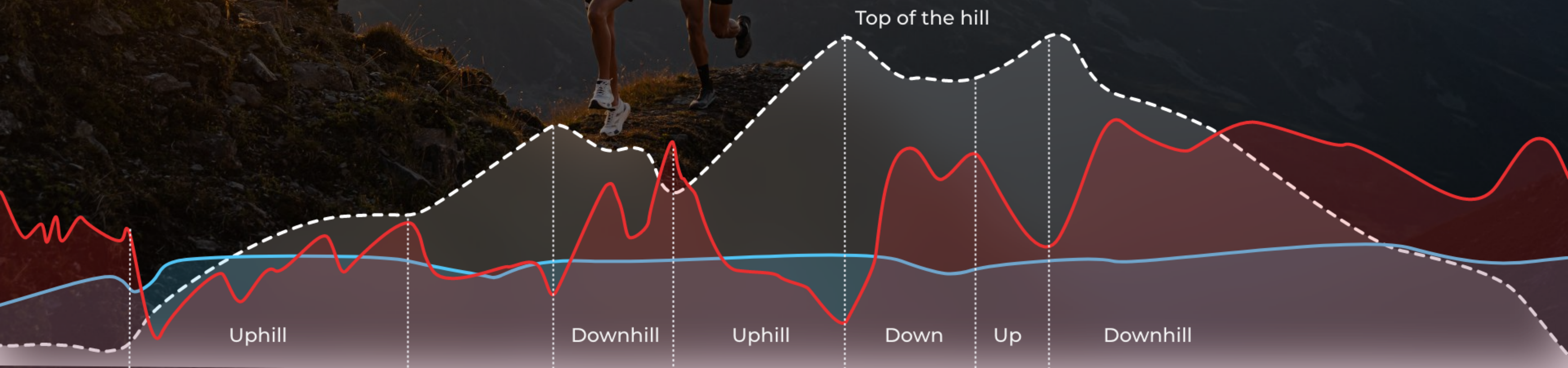
## OTHER TECH

|                  | <b>MUSCLE OXYGEN</b><br>SmO2% | <b>HEART-RATE</b><br>BPM | <b>VO2Max</b><br>ml/kg | <b>GLUCOSE</b><br>mmol/L |
|------------------|-------------------------------|--------------------------|------------------------|--------------------------|
| MONITORS         | Muscle efficiency             | Total body intensity     | Body utilises oxygen   | Level of glucose         |
| EASY OF USE      | Easy                          | Easy                     | Hard                   | Medium                   |
| HOW              | During & post sports          | During & post sports     | During sports          | During & post sports     |
| REAL-TIME        | ✓                             | ✓                        | ✗                      | ✗ (delayed)              |
| WEARABILITY      | Medium                        | Easy                     | Hard                   | Easy                     |
| NON-INVASIVE     | ✓                             | ✓                        | ✓                      | ✗                        |
| PLACEMENT        | On muscle                     | Wrist or chest           | Mouth                  | Upper arm                |
| CURRENT USERS    | Labs                          | Sport enthusiasts        | Labs, coaches          | Patients & labs          |
| MARKET POTENTIAL | Huge                          | Big, but saturated       | Medium                 | Large                    |



--- MOUNTAIN RUN

**MUSCLE OXYGEN VS HEART RATE**





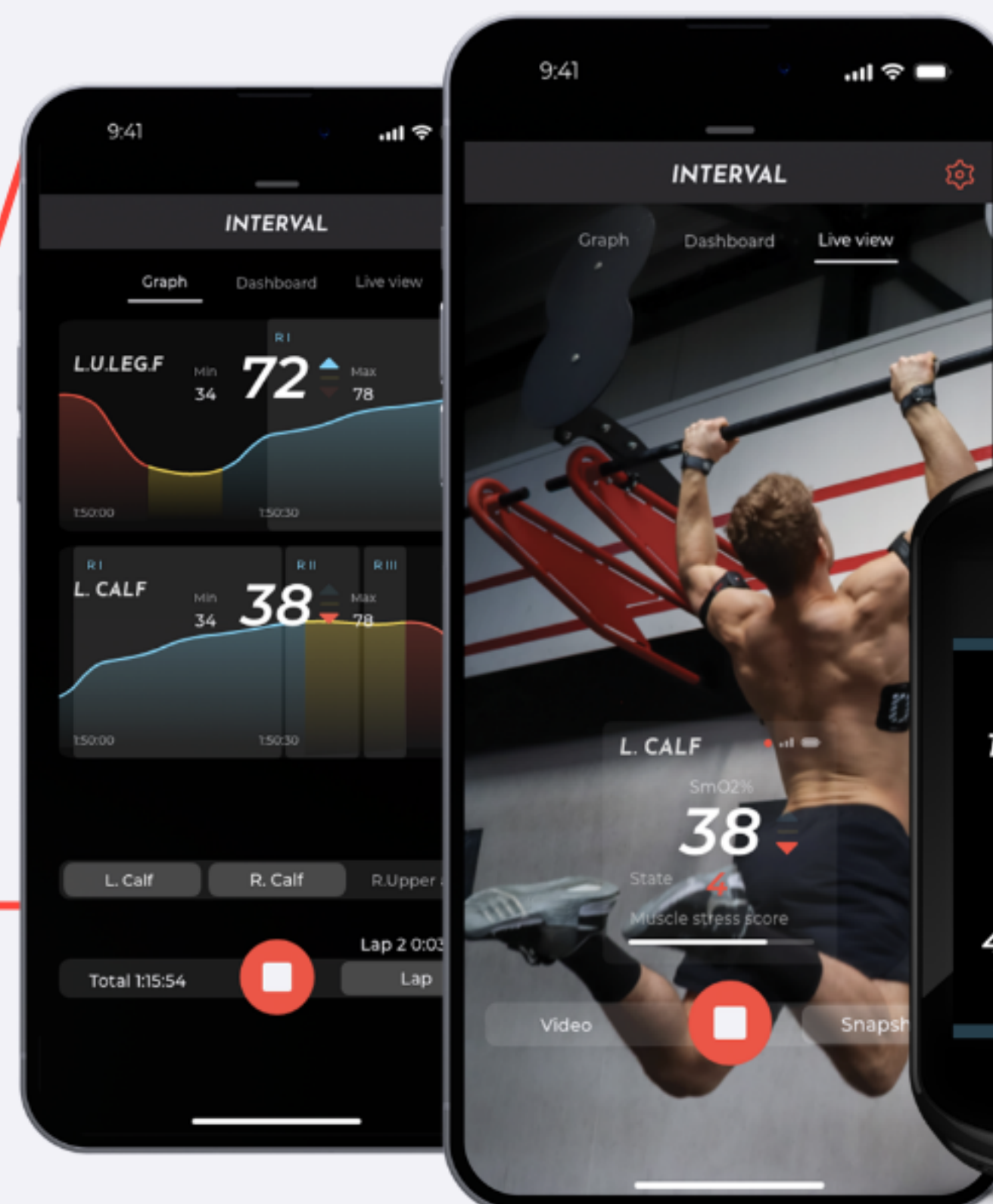
**LIVE NOW**

**THE TOOL**



**MUSCLE O2 SENSORS**  
Train.Red FYER &  
Train.Red PLUS

**APP LIVE**  
(Android, iOS, and  
sportswatch)



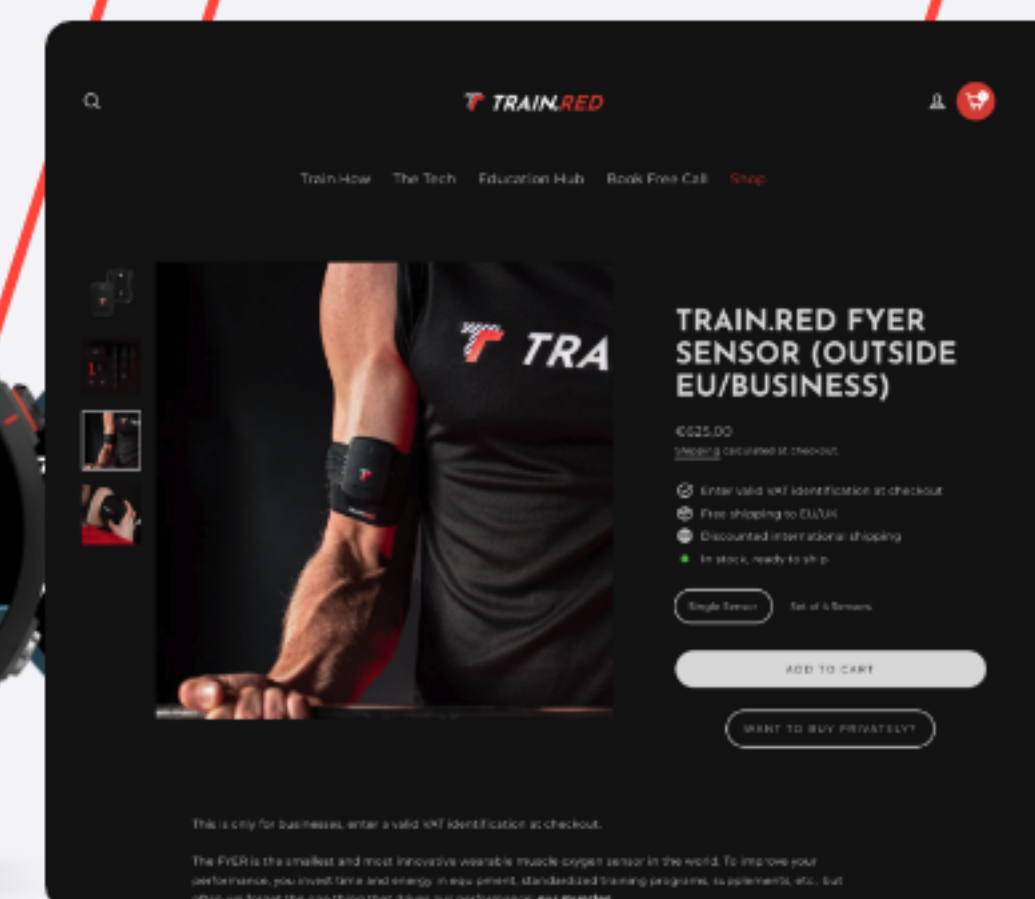
**APP DATA**  
(Smartphone app,  
Pdf report, web tool  
And export (fit & CSV))

**COMBINE**



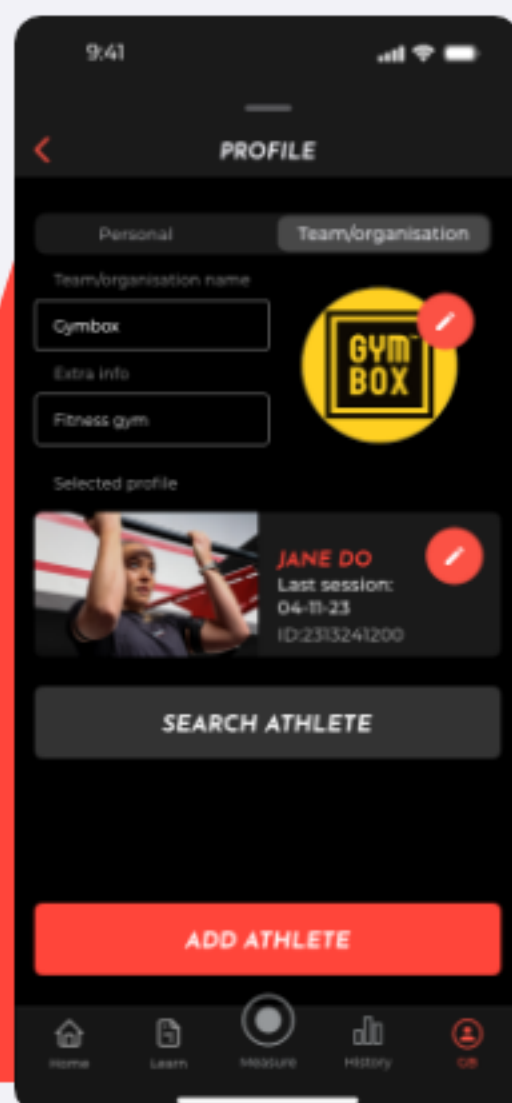
**3RD PARTY  
INTEGRATIONS**

**LEARN MORE**

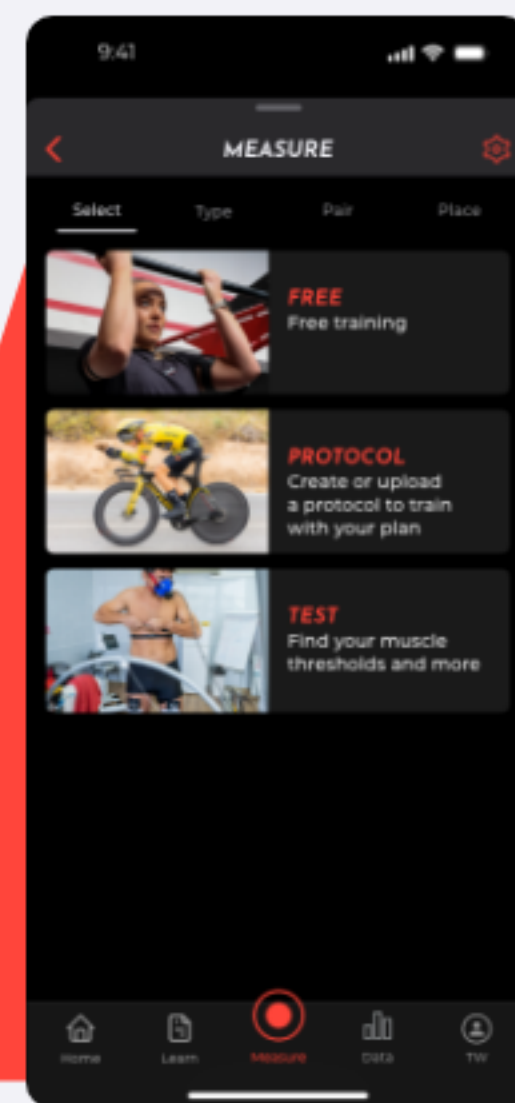


**WEBSHOP**

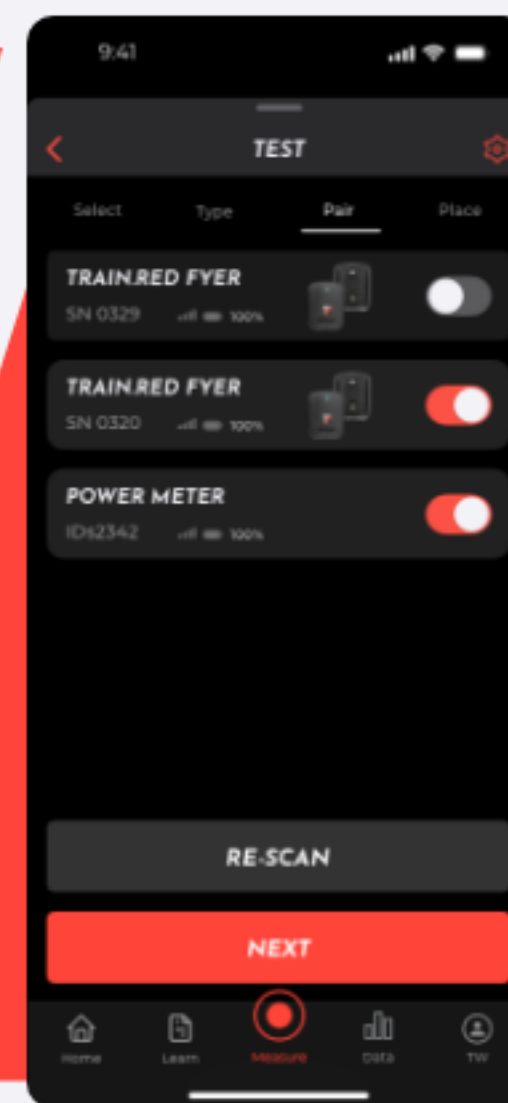




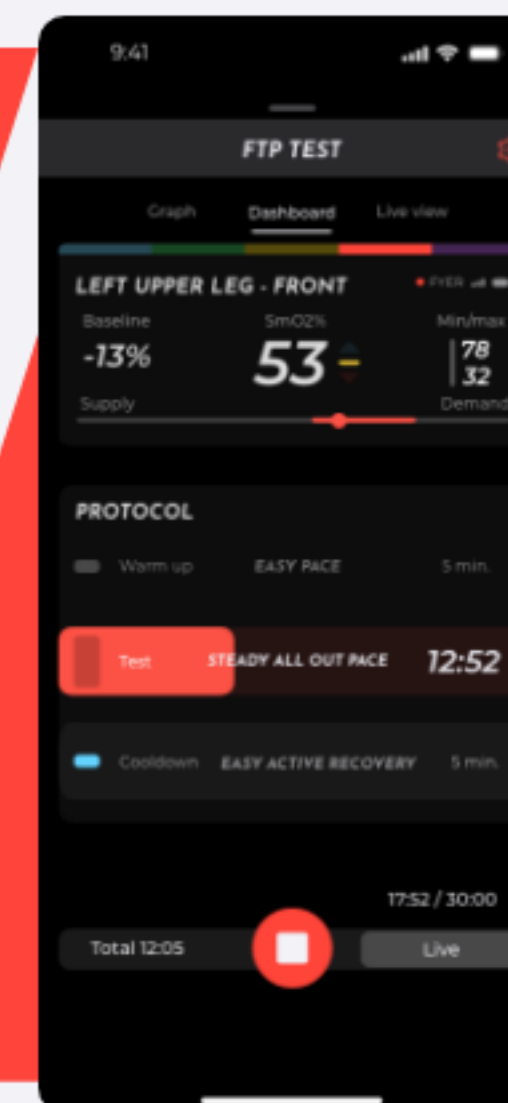
CREATE PROFILE



SELECT TRAINING



CONNECT SENSOR



GUIDED TRAINING



PERSONAL INSIGHTS



# TIMELINE



**Android APP 1.0**

VO2Master

Garmin datafield

Fulgaz

Suunto datafield



Splendo Health

Coros datafield



Test & report feature

Webtool

Gym/team APP



**MuscleCare**

**START**

**2023**

Cosmed

**2024**

**2025**

**Train.Red FYER**



**Train.Red PLUS**

**APP 2.0 + cloud**

Train.Red FYER 2.0

Train.Red PLUS 2.0

Smartwatch

Certified Training Course

